Attorney Docket No. 2020.23(B)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: W. Neal Bebber et al.

Serial No. 09/927,034 Filed: August 9, 2001

For: HIGH STRENGTH LIGHTWEIGHT COMPOSITE FABRIC WITH LOW GAS

PERMEABILITY

March 18, 2002

Group Art Unit 1771

Assistant Commissioner for Patents Box No Fee Washington, DC 20231

SUPPLEMENTAL PRELIMINARY

Sir:

AA RECEIVEL This is to supplement the preliminary amendment mailed on August 9, 200 amend the application as follows;

In the Specification:

Please delete the paragraph beginning at page 3, line 11 and replace it with the following paragraph.

In heavy load cargo airship applications, however, fabrics the same as or similar to the Mater '558 patent tend to form the woven fabric which is thick and bulky. If typical industrial polyester fiber is used the strength of the fiber and the demand of these large airships leads to a very large yarn of perhaps 6-10,000 denier. The alternates is to use highstrength synthetic materials such as aromatic polyamides, one example of which is available from SuPont under the Kevlar® trademark or liquid crystal polyester (e.g., Vectran®) in the form of highly twisted yarns in a plain woven structure (e.g., U.S. Patents Nos. 5,837,623 and 5,565,264). Even if the fibers have tenacities of 20 grams per denier the yarns required become thick and bulky with the typical twist levels. Because of these strength requirements for the hull material, the yarns, and thus the weave, are typically formed very thick. In turn,